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Attn: Compliance Technician
Air Quality Management Division
Alaska Department of Environmental Conservation
610 University Avenue
Fairbanks, Alaska 99709

Subject: Operating Report – Fourth Quarter 2018
Kuparuk Central Production Facility No.1
Permit No. AQ0267TVP01 Rev. 2, 8 August 2007
CPF-1 Standby Generators AQ0267MSS07, 31 October 2014

Enclosed are the original and two copies of the ConocoPhillips Alaska, Inc. (COPA) Operating Report (OR) for the quarter ending December 31, 2018, as required by the referenced Air Quality Control Permit for the Kuparuk Central Production Facility #1 (CPF-1). Reporting required by CPF1 Emergency Generators Project under Air Quality Minor Permit No. AQ0267MSS07 is included in this submittal.

In a routine calibration, the EU 14 flow meter was found to be incorrectly calibrated to ambient air pressure conditions, resulting in incorrect fuel gas use calculations from December 2016 to August 2018. See Attachment 8 for corrections to previously reported fuel gas use.

In a routine audit, the EU 61 fuel use was discovered as entered in error for January and February 2018. See Attachment 8 for EU 14 fuel use corrections and Attachment 3 for 2018 Stationary Source Total Fuel Consumption Summary corrections.

ORL 267CP02 Operator Gas Venting Logsheets previously submitted for August and September presented incorrect Prior 11 months rolling Cumulative Volumes and Rolling 12 month cumulative Total VOCs. Corrected Logsheets are included in Attachment 9.

Note that EU 36 was physically removed from the source as of October 10, 2018.

If you have any questions or need additional information regarding this report, please contact us at n1037@conocophillips.com or by phone at (907) 659-7242.

Sincerely,

Brad Broker/Catie Coursen
Environmental Coordinator

Attachments

cc: Compliance Technician, Fairbanks

dec.aq.airreports@alaska.gov

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I. Certification

Permit Number: Air Quality Operating Permit No. AQ0267TVP01 Rev. 2, August 8, 2007

Operating Report: Fourth Quarter 2018; October 1 through December 31

Statement of Certification

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

I certify that Emission Units 1 through 3, 10, 11, 14, 16, 17, and 37 through 50 burned only gas as fuel for this reporting period.

Signature: Dennis E. Melton
Dennis Melton/Scott Fahrney
CPF1 and CPF2 Operations Superintendent

Date: 2/6/2019

II. Source Identification and Location

ConocoPhillips Alaska, Inc.
700 G Street (zip 99501)
P.O. Box 100360
Anchorage, AK 99510-0360

Stationary Source Name: Central Production Facility #1 (CPF-1)

Location: Kuparuk Oil Field

UTM Coordinates: Northing 7803800, Easting 402000, Zone 6

Township and Range: Section 9, T11N, R10E (Production Pad)
Sections 16 & 21, T11N, R10E (DS1E)
Section 35, T11N, R10E (DS1J)
Umiat Meridian

Permit Number: Air Quality Control Permit No. AQ0267TVP01 Rev. 2

III. Permit Requirements and Compliance Documentation

<u>Condition Number</u>	<u>Requirement</u>	<u>Compliance Documentation</u>
Section 5. Emission Unit-Specific Requirements		
3.3, 98, 99	If any of EU IDs 19 through 28 operate (for emergencies or non-emergencies) for more than the number of hours stated in Condition 3.3, perform a Method 9 visible emission observation. Include a summary of results of all Method 9 readings in the OR.	No Method 9 opacity readings required. Units 19 through 28 operated for less than the number of hours (140 hours for Units 19 and 20 and 400 hours for Units 21 through 28) stated in Condition 3.3.
3.4, 98, 99	If any of EU IDs 4 through 9, 12, 13, 15, and 18 operate on liquid fuel for more than 400 hours in a calendar year perform a Method 9 visible emission observation while firing liquid fuel. Include a summary of results of all Method 9 readings in the OR.	No Method 9 opacity readings required. Units 4 through 9, 12, 13, 15, and 18 operated on liquid fuel for less than 400 hours stated in Condition 3.4.
3.5, 102	For EU IDs 29 through 34 (flares), monitor, record and report the first six daylight flare events during the life of the permit.	For EU ID 29 through 33 Flares, six daylight flare events have been observed: one on 18 July 2003, three on 28 July 2004; one on 16 Sep 2005; and one on 4 Aug 2006. Portable Flare EU ID 34 (Tag No. PF1) is neither operated nor present in the Kuparuk Field and thus not included in the ORs.
3.6, 98, 99	For EU IDs 35 and 36 (incinerators), perform a Method 9 visible emission observation once per calendar year. Include a summary of results of all Method 9 readings in the OR.	A Method 9 observation was conducted for EU 35 on 7 May 2018. EU ID 36 did not operate during the reporting period and was physically removed 10 October 2018. Refer to Section IV.
3.8, 98, 99	If any rig camp engine (EU ID 60) is no longer a nonroad engine and combusts more than 13,500 gallons of fuel per consecutive 12-month period, perform a Method 9 visible emission observation. Include a summary of results of all Method 9 readings in the OR.	There were no rig camp engines that qualified under this permit or this condition.
5.1a, 32.4, 32.7	When using liquid fuel from a North Slope topping plant in EU IDs 1 - 34, 37- 50, 59, and 60, include a list of the sulfur contents measured for each month covered by the report in the OR. Report changes to fuel supplier/ source to EPA Region 10.	See Attachment 1. There were no changes to the liquid fuel supplier or source.
5.1d	When using liquid fuel from a North Slope topping plant with a sulfur content greater than 0.75% by weight, include the calculated SO ₂ emissions in ppm in the OR.	There was no liquid fuel with sulfur content greater than 0.75% by weight used during this reporting period.

<u>Condition Number</u>	<u>Requirement</u>	<u>Compliance Documentation</u>
5.2b, 5.2d, 9.3, 32.1, 32.4	For fuel gas, submit records of fuel sulfur content standard analyses. 1. Demonstrate that fuels meet definition of natural gas; or 2. Monitor total sulfur fuel content using approved method from NSPS Subpart GG. OR 3. If a demonstration is not made that the fuel meets the definition of natural gas, then the sulfur content of the fuel may be determined semi-annually using an analytical method approved by EPA in a custom fuel monitoring plan/schedule. Include copies of the records with the OR.	See the reported monthly H2S fuel gas content analyzed by ASTM Method D4810 in Attachment 1.
BACT Emission Limits		
6.2	For EU ID 1-3 and 8-13, report monthly and consecutive 12-month period sum of NO _x , SO ₂ , CO, PM, and VOC emissions, for each month of the reporting period, with the OR.	See Attachment 3.
7.2	For EU ID 16, 37-41, 43-45, and 48-50, report monthly and consecutive 12-month period summation of NO _x , SO ₂ , CO, and PM emissions, for each month of reporting period, with the OR.	See Attachment 3.
8.2	For EU ID 36, report monthly and consecutive 12-month period summation of NO _x , SO ₂ , CO, PM and VOC emissions, for each month of reporting period, with the OR.	See Attachment 3.
9.2, 31.6	If EU ID 14 is tested or represented by testing at less than maximum load and for which the load must be limited under Condition 31.4c, include the information required in Condition 31.6.a(i) – (iii) in the OR.	EU ID 14 GE Frame 6 Gas Turbine Electric Generator was tested on August 8-9, 2018 at loads up to 81% based on prevailing ambient conditions. No load limits resulted.
Fuel Consumption Monitoring for EU IDs 1-50, and 58-63		
10.4	For each emission unit group (turbines, heaters, engines, flares, incinerators, drill site heaters, drill rig engines, drill rig heaters and boilers, rig camp engines, well service heaters, well service engines, and well frac unit engines), report the monthly total fuel consumption for each fuel type (MMscf/month and/or gallons/month) and the stationary source total fuel consumption, for each month covered by the reporting in the OR.	See Attachment 3.
10.5, 18.1	Report the 12-consecutive month total fuel consumption (MMscf or gallons) for each emission unit group described by EU IDs 34 and 58-63 for each month of the reporting period in the OR.	See Attachment 2 for EU ID 58-63. Portable Flare EU ID 34 (Tag No. PF1) is neither operated nor present in the Kuparuk Field and thus not included in the OR.

<u>Condition Number</u>	<u>Requirement</u>	<u>Compliance Documentation</u>
10.6, 15.1, 16.1, 17.1, 18.1	Report maximum total daily fuel use EU ID 34, 58, 61 and 62 combined, and 63 for each month covered by the reporting period in the OR.	Portable Flare EU ID 34 (Tag No. PF1) is neither operated nor present in the Kuparuk Field and thus not included in the OR. For EU ID 58, 61 and 62, see Attachment 2.
Hours of Operation Monitoring for Fuel-Fired Emission Units		
11.1, 11.3	For each of EU ID 1-18 and 35-50, report the monthly operating time in the OR.	See Attachment 2.
11.2, 11.3	For EU ID 4-9, 12, 13, 15, and 18, report the monthly operating time separately for fuel gas and liquid fuel firing, and the calendar year total liquid fuel operating time in the OR.	See Attachment 2.
Fuel Gas Hydrogen Sulfide Content Limit		
12.2	For EU ID 1-18 and 29-50, report the monthly and rolling 12-month average fuel gas H ₂ S concentration, for each month of the reporting period, with the OR.	See Attachment 3.
Liquid Fuel Sulfur Content Limit		
13.1, 32.4	Report the liquid fuel sulfur content in the OR.	See Attachment 1.
NOx Monitoring, Recordkeeping, and Reporting for NSPS Subpart GG Turbines		
31.6a	For turbines (EU IDs 1-3 and 10-13) that are subject to load limits to comply with NSPS Subpart GG and/or BACT emission limits, list each turbine tested or represented by testing at less than maximum load and for which the load must be limited (by Condition 31.4c) include the following information in the OR. 1) The load limit; 2) The turbine identification; and 3) The highest load recorded as part of the recordkeeping requirements.	None of the turbines listed in Condition 31.6 is limited by testing results as described in Condition 31.4. This condition was not triggered during the operating period.
31.6b	For each turbine subject to NSPS Subpart GG and/or BACT emission limits (EU IDs 1-3 and 10-13) that has not been required to conduct periodic source testing because it normally operates less than 400 hours in any 12 months, but has now operated more than 400 hours in a 12-month period ending during the reporting period, identify in the OR: 1) the turbine, 2) The highest number of operating hours for any 12 months ending during the period covered by the report, and 3) Any turbine that operated 400 or more hours.	This condition was not triggered for the affected turbines during the operating period.

<u>Condition Number</u>	<u>Requirement</u>	<u>Compliance Documentation</u>
32.4	Submit a summary of the sulfur analysis analytical results taken to comply with the fuel sulfur content standard (see Condition 5.2d above) with each OR.	See Attachment 1.
Section 7. Owner Requested Limits (ORL)		
Operating Hours of Emergency Liquid fuel-fired Engines		
37.2	For EU ID 19-28, report the monthly and consecutive 12-month period operating time for each emission unit in the OR.	See Attachment 2.
ORL for Emission Unit 16 to avoid exceeding 43 MMBtu/hr firing rate		
38.3	For EU ID 16, report the maximum daily average fuel consumption rate for each month in the OR.	See Attachment 2.
Limits to Avoid Classification as PSD Major		
39.2	For EU ID 1-3, report the 12-consecutive month period summation of NO _x emissions from these emission units, combined, for each month in the OR.	See Attachment 3.
40.1	For EU ID 42, 46, and 47, report the make and rating of each production heater in the next OR following initial startup of each unit.	Documentation submitted to ADEC April 21, 2006 in the First Quarter 2006 Operating Report.
41.5	For EU ID 34, 42, 46, 47, and 59, report the 12-consecutive month SO ₂ emissions for these emission units, combined, for each month of the reporting period, with each OR.	Portable Flare EU ID 34 (Tag No. PF1) is neither operated nor present in the Kuparuk Field and thus not included in the OR. See Attachment 3.
42.3	For EU ID 56, include with each OR: a) Monthly estimated VOC emissions from these tanks at DS1E and DS1J and the 12 consecutive month VOC emissions, for each month in the reporting period;	See Attachment 3.
42.3	For EU ID 56, include with each OR: b) Input and output from simulation models and software used to estimate VOC emissions; and c) All calculations and assumptions used to estimate VOC emissions.	See Attachment 7.
ORL for Incinerators to avoid stationary source classification as "HAPs major"		
43.2	For EU IDs 35 and 36, report the monthly and consecutive 12-month total summation of solid waste throughput for each month in the OR.	See Attachment 2.
44.3	For EU ID 36, report the monthly maximum hourly average charging rates (lb/hr) in the OR.	See Attachment 2.
Section 10. Insignificant Emission Units		

<u>Condition Number</u>	<u>Requirement</u>	<u>Compliance Documentation</u>
54.3	For any of EU IDs 19-28 that have exceeded the IEU threshold of 18 AAC 50.326(e), or any of EU IDs 61-63 that have exceeded the IEU threshold of 18 AAC 50.326(f)(85), or any EU at the stationary source that has actual emissions greater than the IEU emissions thresholds, include documentation of the emission unit emissions in the OR.	This condition was not triggered in this reporting period.
Section 11. Generally Applicable Requirements		
61.5	Include summary information regarding any exclusion zone violations in the OR.	This provision was not triggered in this reporting period.
70.5	Include a summary report about emissions complaints with the OR which includes: <ol style="list-style-type: none"> 1. Number of complaints received; 2. Number of times COPA or ADEC found corrective action necessary; 3. Number of times corrective action was taken within 24 hours; and 4. Status of corrective action COPA or ADEC found necessary that were not taken within 24 hours. 	No complaints were received in this reporting period.
Section 13. General Recordkeeping, Reporting, and Compliance Certification Requirements		
87.1	Attach a copy of any NSPS and NESHAPs reports submitted to EPA Region 10 with the OR unless copies have already been provided to ADEC at time of submittal.	All reports submitted to EPA were provided to ADEC at the time they were submitted to EPA.
88.2a	If excess emissions or permit deviations occurred during the reporting period and were not yet reported, identify: <ol style="list-style-type: none"> 1. Date of the deviation; 2. Equipment involved; 3. The permit condition affected; 4. A description of excess emissions or permit deviation; and 5. Any corrective action or preventive measures taken and the date 	No excess emissions or permit deviations occurred during this reporting period. See Section VI of this report and Attachments 4 for excess emissions or permit deviations not previously submitted during the applicable reporting period.
Section 16. Visible Emissions and PM Monitoring, Recordkeeping and Reporting		
98.2	If EU IDs 4-9, 12, 13, 15, 18, 19-28, 60, 35 or 36 trigger Condition 98.1, include a summary of the results of all Method 9 readings conducted during the reporting period in the OR.	This condition was not triggered in this reporting period.
99.2	For EU IDs 4-9, 12, 13, 15, 18, 19-28, 60, 35 if Method 9 readings require corrective actions, submit a written record showing the starting date, completion date, and description of any actions taken to reduce visible emissions with each OR.	This condition was not triggered in this reporting period.

IV. Fuel Sulfur Content and Visible Emissions Observations

Condition 5.1.a: Liquid Fuel Sulfur Content

The Kuparuk River Unit began using Ultra Low Sulfur Diesel in accordance with the *North Slope Ultra Low Sulfur Diesel Transition Agreement* on January 1, 2009. Under this agreement, non-road engines are fueled with ULSD, while heaters and boilers are primarily fueled with Kuparuk Low End Point Diesel (though these too may occasionally be fueled with ULSD). ULSD was supplied by Colville Services from the Tesoro Refinery.

COPA collects and analyzes representative samples of ULSD and LEPD each month. Laboratory reports documenting the sulfur analysis appear as Attachment 1 to this report. Diesel is sampled at the CPF-1 ULSD Imported Product Tank No. 504 and LEPD Product Tank No. 501.

Condition 5.2 and 32.1: Fuel Gas Sulfur Content

An analytical report for monthly fuel gas H₂S is included as Attachment 1. In addition, the emission summary reports in Attachment 3 include a mean value for fuel gas H₂S which may be slightly different than the lab sample value. The reason for this difference is that the mean value reflects a daily average calculated from the previous month and current month samples.

Condition 3.6, 98.2, 99.2, 102: Results of the annual visible emission surveillance conducted during the reporting year are listed below.

ID	Tag No.	Description	Date of Reading	Permit Stipulation	Initials of Reader	Minimum Reading %	Maximum Reading %	Average Opacity
35	H-250	Incinerator	7 May 2018	3.6, 98, 99	SB	0	0	0

V. Hours of Operation, Fuel Type, Fuel Consumption and Applicable Operating Parameters for Period

Due to the requirement to report all quantities, even if zero, all regulated emission units are listed where required. All blanks indicate that applicable fuel use is not possible or that reporting is not required. Operating hours, fuel type, fuel consumption and applicable operating parameters are in Attachment 2. Condition 10.4 of the permit requires reporting of monthly fuel use for each emission unit group, as well as the stationary source total fuel use for each month. The table in Attachment 3 presents the monthly liquid and fuel gas usage for each group and the total for the stationary source for this operating period.

VI. Dates of Excess Emission and Permit Deviation Reports which have already been filed with ADEC for Period

Condition 88.2.b: The permittee may cite report dates if already submitted to the department.

- None during this reporting period.
- See Attachment 4 for excess emission/permit deviation reports not previously submitted to ADEC.

VII. Record of Complaints for Reporting Period

No complaints were received during this reporting period.

VIII. Additional Reporting Required by AQ0267MSS07 (issued 31 October 2015)

<u>Condition Number</u>	<u>Requirement</u>	<u>Compliance Documentation</u>
5.2	For EU ID 69 and 70, attach a copy of the certified manufacturer guarantee or a copy of the observation records to the operating report.	EU ID 69 and 70 became fully operational on 5 May 2016. EU ID 69 and 70 were observed on 28 May 2016.
7.2	After installation of EU ID 69 and 70, affirm that the exhaust stack from the EU complies with vertical, uncapped exhaust.	EU ID 69 and 70 exhaust stacks are vertical and uncapped.

Attachment 1

Monthly Laboratory Analysis Results for Liquid Fuel and Fuel Gas Sulfur Content

**KUPARUK LABORATORY
ANALYTICAL REPORT**

Kuparuk Title V Air Quality Report
October 2018

Report Date: 2/3/19
To: NSK Environmental

Hydrogen Sulfide in Fuel Gas			H2S		Reference	Notes
LIMS#	Sample location	Date	Result	Units		
S-181006-00238	CPF-1 Frame 6 Fuel Gas H2S	10/3/2018	125	ppm	ASTM D4810-06	Monthly
S-181006-00239	CPF-1 Lift Gas H2S	10/3/2018	125	ppm	ASTM D4810-06	Monthly
S-181006-00240	CPF-2 Fuel Gas H2S	10/2/2018	100	ppm	ASTM D4810-06	Monthly
Multiple	CPF-3 Fuel Gas H2S	Multiple	181	ppm	ASTM D4810-06	Time Weighted Average for the Month
S-181006-00242	STP Fuel Gas H2S	10/6/2018	200	ppm	ASTM D4810-08	Monthly
S-181014-00114	STP Fuel Gas H2S	10/14/2018	185	ppm	ASTM D4810-09	Monthly
S-181006-00243	STP DA Off-gas H2S	10/6/2018	0	ppm	ASTM D4810-10	Monthly

ULSD Imported Product Tank 801/902			Sulfur Content		Reference	Notes
LIMS#	Sample location	Date	Result	Units		
S-181009-00271	ULSD Imported Product Tank 801/902	10/6/2018	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month

Kuparuk LEPD			Sulfur Content		Reference	Notes
LIMS#	Sample location	Date	Result	Units		
S-181022-00141	KUTP Tank 501 Low End Point Diesel	10/22/2018	1215.3	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month
			0.12	Weight %		

CPF2 Tank 4201			Sulfur Content		Reference	Notes
LIMS#	Sample location	Date	Result	Units		
S-181004-00245	CPF2 T-4201 Monthly Diesel	10/4/2018	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Monthly

Note: NA- Not analyzed
Contact NSK Environmental group for copies of this report

**KUPARUK LABORATORY
ANALYTICAL REPORT**

Kuparuk Title V Air Quality Report
November 2018

Report Date: 2/3/19
To: NSK Environmental

Hydrogen Sulfide in Fuel Gas		H2S		Reference	Notes
LIMS#	Sample location	Result	Units		
S-181103-00297	CPF-1 Frame 6 Fuel Gas H2S	120	ppm	ASTM D4810-06	Monthly
S-181103-00298	CPF-1 Lift Gas H2S	125	ppm	ASTM D4810-06	Monthly
S-181103-00299	CPF-2 Fuel Gas H2S	90	ppm	ASTM D4810-06	Monthly
Multiple	CPF-3 Fuel Gas H2S	188	ppm	ASTM D4810-06	Time Weighted Average for the month
S-181103-00288	STP Fuel Gas H2S	180	ppm	ASTM D4810-06	Monthly
S-181103-00289	STP DA Off-gas H2S	0	ppm	ASTM D4810-06	Monthly

ULSD Imported Product Tank 801/902		Sulfur Content		Reference	Notes
LIMS#	Sample location	Result	Units		
S-181107-00129	ULSD Imported Product Tank 801/902	6.1	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month

Kuparuk LEPD		Sulfur Content		Reference	Notes
LIMS#	Sample location	Result	Units		
S-181105-00309	KUTP Tank 501 Low End Point Diesel	1231.5	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month
		0.12	Weight %		

CPF2 Tank 4201		Sulfur Content		Reference	Notes
LIMS#	Sample location	Result	Units		
S-181106-00312	CPF2 T-4201 Monthly Diesel	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Monthly

Note: NA- Not analyzed
Contact NSK Environmental group for copies of this report

**KUPARUK LABORATORY
ANALYTICAL REPORT**

Kuparuk Title V Air Quality Report
December 2018

Report Date: 1/3/19
To: NSK Environmental

Hydrogen Sulfide in Fuel Gas			H2S		Reference	Notes
LIMS#	Sample location	Date	Result	Units		
S-181202-00257	CPF-1 Frame 6 Fuel Gas H2S	12/1/2018	120	ppm	ASTM D4810-06	Monthly
S-181202-00258	CPF-1 Lift Gas H2S	12/1/2018	130	ppm	ASTM D4810-06	Monthly
S-181202-00259	CPF-2 Fuel Gas H2S	12/2/2018	75	ppm	ASTM D4810-06	Monthly
Multiple	CPF-3 Fuel Gas H2S	Multiple	186	ppm	ASTM D4810-06	Time-weighted average for the month
S-181202-00261	STP Fuel Gas H2S	12/1/2018	220	ppm	ASTM D4810-06	Monthly
S-181202-00262	STP DA Off-gas H2S	12/1/2018	0	ppm	ASTM D4810-06	Monthly

ULSD Imported Product Tank 801/902			Sulfur Content		Reference	Notes
LIMS#	Sample location	Date	Result	Units		
S-181216-00102	ULSD Imported Product Tank 801/902	12/15/2018	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month

Kuparuk LEPD			Sulfur Content		Reference	Notes
LIMS#	Sample location	Date	Result	Units		
S-181203-00101	KUTP Tank 501 Low End Point Diesel	12/3/2018	1061.1	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month
			0.11	Weight %		

CPF2 Tank 4201			Sulfur Content		Reference	Notes
LIMS#	Sample location	Date	Result	Units		
S-181209-00127	CPF2 T-4201 Monthly Diesel	12/3/2018	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Monthly

Note: NA- Not analyzed
Contact NSK Environmental group for copies of this report

Attachment 2

Hours of Operation, Fuel Type, Fuel Consumption and Applicable Operating Parameters by Month

ConocoPhillips Alaska, Inc.
CPF1 Monthly Facility Operating Report
CPF1 Title V Permit # 267TVP01
October 2018

No.	Tag No.	Rating/Service	Vendor/Model	Fuel Gas Used (hrs) (MMSCF)	Diesel (hrs)	Diesel (Gal)	YTD Diesel (hrs)	12 Month Diesel (hrs)	Non-Emerg (hrs)	12 Month non-Emerg (hrs)	Emerg (hrs)	12 Month Emerg (hrs)
Group I - Gas Turbines												
1	C-2101-A	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	744.0	101.8							
2	C-2101-B	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	744.0	99.68							
3	C-2101-C	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	744.0	99.58							
4	G-201-A	4.9 MHP/Electric Generator	Rustov/TB5000	3.81	0.11	0.00	0.00	0.00	0.00			
5	G-201-B	4.9 MHP/Electric Generator	Rustov/TB5000	726.9	24.78	0.00	0.00	0.00	0.00			
6	G-201-C	4.9 MHP/Electric Generator	Rustov/TB5000	481.5	17.12	0.00	0.00	0.00	0.00			
7	G-201-D	4.9 MHP/Electric Generator	Rustov/TB5000	367.2	11.20	0.00	0.00	0.00	0.00			
8	G-3201-E	4.9 MHP/Electric Generator	Rustov/TB5000	297.7	9.27	0.00	0.00	0.00	0.00			
9	G-3201-F	4.9 MHP/Electric Generator	Rustov/TB5000	3.75	0.14	0.00	0.00	0.00	0.00			
10	P-2202-A	5.4 MHP/Water Injection Pump	Rustov/TB5400	744.0	35.07							
11	P-2202-B	5.4 MHP/Water Injection Pump	Rustov/TB5400	744.0	33.32							
12	P-CL07-A	5.4 MHP/Water Injection Pump	Rustov/TB5400	263.2	9.86	0.00	0.00	0.00	0.00			
13	P-CL07-B	5.4 MHP/Water Injection Pump	Rustov/TB5400	606.6	27.72	0.00	0.00	0.00	0.00			
14	G-3203	53.5 MHP/Electric Generator	GE/Frame 6	744.0	228.0							
Group I SUBTOTALS				7264.44	697.7	0.00	0.00	0.00	0.00			
Group II - Fired Heaters												
15	H-201	27.8 MMBTU/hr Emergency Bld Heater	Broach	0.00	0.00	0.00	0.00	0.00	0.00			
16	G1-14-01	44.4 MMBTU/hr KUTP Heater	Biom	744.00	19.20	Max Dly Avg = 0.0265 MMSCF/hr						
16	G1-14-01	44.4 MMBTU/hr KUTP Heater (FBU FG)	Biom	0.00	0.00							
17	H-3204	9.7 MMBTU/hr Fuel Gas Heater	Kvaerner Process	744.00	0.93							
17	H-3204	9.7 MMBTU/hr Fuel Gas Heater (PBU FG)	Kvaerner Process	0.00	0.00							
18	H-102A	4.375 MMBTU/hr Air Heater	ICE MFG Ltd.	0.00	0.00	0.00	0.00	0.00	0.00			
Group II SUBTOTALS				1488.00	20.130	0.00	0.00	0.00	0.00			
Group III - Diesel Fired Equip												
19	G-701-A	1086 HP Emergency Generator	Waukesha		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	G-701-B	1086 HP Emergency Generator	Waukesha		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	P-CL04-ECC	215 HP Water Booster Pump	Detroit Diesel		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	P-1A02	240 HP Freeze Protect Pump (1A)	Detroit Diesel		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	P-1F02	240 HP Freeze Protect Pump (1F)	Detroit Diesel		0.00	0.00	0.75	4.20	0.00	0.75	0.00	3.45
24	P-1G02	240 HP Freeze Protect Pump (1G)	Detroit Diesel		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	P-1I02	300 HP Freeze Protect Pump (1I)	Detroit Diesel		0.00	0.00	0.00	0.31	0.00	0.31	0.00	0.00
26	P-1Q02	300 HP Freeze Protect Pump (1Q)	Detroit Diesel		0.00	0.00	0.00	2.00	0.00	2.00	0.00	0.00
27	P-1R02	300 HP Freeze Protect Pump (1R)	Detroit Diesel		0.53	8.19	0.53	0.53	0.53	0.53	0.00	0.00
28	P-1Y02	300 HP Freeze Protect Pump (1Y)	Detroit Diesel		0.78	12.05	0.78	4.28	0.00	3.50	0.78	0.78
Group III SUBTOTALS					1.31	20.24	2.06	11.35	0.53	7.12	0.78	4.23
Group IV - Flares												
29	H-101B	East Flare Tip	McC Gill	239.08								
30	H-KF01	1-58 VS LP Flare Tip (Smokeless)	Keldair	504.92								
31	H-KF02	1-87 FS HP Flare Tip (Smokeless)	Keldair	504.92								
32	H-CR01A	West NGL Flare	McC Gill	230.30								
33	H-CR01B	East NGL Flare	McC Gill	513.70								
Group IV SUBTOTALS				1992.91	41.106							
Group V - Incinerators												
35	H-250	1300 lbs/hr Incinerator	Compro	675.5	2.23							
36	H-347	900 lbs/hr Incinerator	Compro	0.00	0.00							
Group V SUBTOTALS				675.50	2.23							
Group VI - Drill Site Heaters												
37	H-1A01	16.4 MMBTU/hr/Drill Site 1A Heater	Lafoka	744.0	11.09							
38	H-1B01	16.4 MMBTU/hr/Drill Site 1B Heater	Lafoka	744.0	11.09							
39	H-2A01	14.5 MMBTU/hr/Drill Site 1C Heater	CE NATCO	744.0	9.82							
40	H-3A01	19.6 MMBTU/hr/Drill Site 1D Heater	CE NATCO	744.0	13.24							
41	H-1E01	16.4 MMBTU/hr/Drill Site 1E Heater	Lafoka	0.00	0.00							
42	H-1E02	30.0 MMBTU/hr/Drill Site 1E Heater	GTS Energy	244.0	1.84							
43	H-1F01	14.9 MMBTU/hr/Drill Site 1F Heater	BSSB	744.0	10.04							
44	H-1G01	14.9 MMBTU/hr/Drill Site 1G Heater	BSSB	744.0	10.04							
45	H-1F-1901	16.4 MMBTU/hr/Drill Site 1H Heater	Lafoka	744.0	3.61							
46	H-1J01A	36.8 MMBTU/hr/Drill Site 1J Heater A	Petro Chem	742.6	8.06							
47	H-1J01B	36.8 MMBTU/hr/Drill Site 1J Heater B	Petro Chem	742.6	7.75							
48	H-1Q01	21.0 MMBTU/hr/Drill Site 1Q Heater	BSSB	744.0	14.21							
49	H-1R01	17.2 MMBTU/hr/Drill Site 1R Heater	BSSB	744.0	11.61							
50	H-1Y01	14.9 MMBTU/hr/Drill Site 1Y Heater	BSSB	0.00	0.00							
Group VI SUBTOTALS				8925.17	112.4							
FACILITY TOTALS				673.6	20.24							

Additional INCINERATOR INFORMATION

H-250 Monthly Solid Waste Throughput (tons): 48.6 12-months (tons): 559.6
H-347 Monthly Solid Waste Throughput (tons): 0.0 12-months (tons): 0.0
Maximum Monthly Charge Rate (lbs/hr): 0.00

Based on the information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Date:

Dennis Melton

Reviewed by: Operations Superintendent - Printed Name

Dennis Melton 11/16/18

Operations Superintendent - Signature

Original: Environmental

Generated on 14-NOV-18 07:07

**ConocoPhillips Alaska, Inc.
CPF1 Monthly Facility Operating Report
CPF1 Title V Permit # 267TVP01
November 2018**

No. Tag No.	Rating/Service	Vendor/Model	Fuel Gas (hrs)	Fuel Used (MMSCF)	Diesel (hrs)	Diesel (Gal)	YTD Diesel (hrs)	12 Month Diesel (hrs)	Non-Emerg (hrs)	12 Month non-Emerg (hrs)	Emerg (hrs)	12 Month Emerg (hrs)
Group I - Gas Turbines												
1	C-2101-A	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	708.0	101.3							
2	C-2101-B	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	687.9	95.13							
3	C-2101-C	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	359.7	47.84							
4	G-201-A	4.9 MHP/Electric Generator	Rustory/TB5000	54.45	1.69	0.00	0.00	0.00	0.00			
5	G-201-B	4.9 MHP/Electric Generator	Rustory/TB5000	721.0	26.42	0.00	0.00	0.00	0.00			
6	G-201-C	4.9 MHP/Electric Generator	Rustory/TB5000	73.00	2.56	0.00	0.00	0.00	0.00			
7	G-201-D	4.9 MHP/Electric Generator	Rustory/TB5000	721.0	25.71	0.00	0.00	0.00	0.00			
8	G-201-E	4.9 MHP/Electric Generator	Rustory/TB5000	664.4	23.92	0.00	0.00	0.00	0.00			
9	G-201-F	4.9 MHP/Electric Generator	Rustory/TB5000	0.00	0.00	0.00	0.00	0.00	0.00			
10	P-2202-A	5.4 MHP/Water Injection Pump	Rustory/TB5400	719.6	31.40							
11	P-2202-B	5.4 MHP/Water Injection Pump	Rustory/TB5400	707.6	29.78							
12	P-CL07-A	5.4 MHP/Water Injection Pump	Rustory/TB5400	703.0	26.67	0.00	0.00	0.00	0.00			
13	P-CL07-B	5.4 MHP/Water Injection Pump	Rustory/TB5400	275.7	11.28	0.00	0.00	0.00	0.00			
14	G-3203	53.5 MHP/Electric Generator	GE/Frame 6	721.0	223.0							
Group I SUBTOTALS				7116.33	646.7	0.00	0.00	0.00	0.00			
Group II - Fired Heaters												
15	H-201	27.8 MMBTU/hr Emergency Bld Heater	Brooch	0.00	0.00	0.00	0.00	0.00	0.00			
16	G1-14-01	44.4 MMBTU/hr KUTP Heater	Born	686.25	18.67							
						Max Dly Avg = 0.0284 MMSCF/hr						
16	G1-14-01	44.4 MMBTU/hr KUTP Heater (FBU FG)	Born	0.00	0.00							
17	H-3204	9.7 MMBTU/hr Fuel Gas Heater	Kvaerner Process	721.00	1.01							
17	H-3204	9.7 MMBTU/hr Fuel Gas Heater (FBU FG)	Kvaerner Process	0.00	0.00							
18	H-102A	4.375 MMBTU/hr Air Heater	ICE MFG Ltd.	0.00	0.00	0.00	0.00	0.00	0.00			
Group II SUBTOTALS				1407.25	19.680	0.00	0.00	0.00	0.00			
Group III - Diesel Fired Equip												
19	G-701-A	1086 HP Emergency Generator	Waukesha			0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	G-701-B	1086 HP Emergency Generator	Waukesha			0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	P-CL04-ECC	215 HP Water Booster Pump	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	P-1A02	240 HP Freeze Protect Pump (1A)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	P-1F02	240 HP Freeze Protect Pump (1F)	Detroit Diesel			0.00	0.00	0.75	0.75	0.00	0.75	0.00
24	P-1G02	240 HP Freeze Protect Pump (1G)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	P-1L02	300 HP Freeze Protect Pump (1L)	Detroit Diesel			0.00	0.00	0.00	0.34	0.00	0.34	0.00
26	P-1Q02	300 HP Protect. Pump (1Q)	Detroit Diesel			0.00	0.00	0.00	1.00	0.00	1.00	0.00
27	P-1R02	300 HP Protect. Pump (1R)	Detroit Diesel			0.00	0.00	0.53	0.53	0.00	0.53	0.00
28	P-1Y02	300 HP Protect. Pump (1Y)	Detroit Diesel			0.00	0.00	0.78	2.28	0.00	1.50	0.00
Group III SUBTOTALS						0.00	0.00	2.06	4.90	0.00	4.12	0.00
Group IV - Flares												
29	H-101B	East Flare Tip	McGill	0.00								
30	H-KF01	1-58 VS LP Flare Tip (Smokeless)	Kaldair	721.00								
31	H-KF02	1-87 FS HP Flare Tip (Smokeless)	Kaldair	721.00								
32	H-CR01A	West NGL Flare	McGill	0.00								
33	H-CR01B	East NGL Flare	McGill	721.00								
Group IV SUBTOTALS				2163.00	49.765							
Group V - Incinerators												
35	H-250	1300 lb/hr Incinerator	Compro	665.0	2.19							
36	H-347	900 lb/hr Incinerator	Compro	0.00	0.00							
Group V SUBTOTALS				665.00	2.19							
Group VI - Drill Site Heaters												
37	H-1A01	16.4 MMBTU/hr/Drill Site 1A Heater	Latoka	721.0	10.74							
38	H-1B01	16.4 MMBTU/hr/Drill Site 1B Heater	Latoka	721.0	10.74							
39	H-2V01	14.5 MMBTU/hr/Drill Site 1C Heater	CE NATCO	721.0	9.52							
40	H-3F01	19.6 MMBTU/hr/Drill Site 1D Heater	CE NATCO	721.0	12.83							
41	H-1E01	16.4 MMBTU/hr/Drill Site 1E Heater	Latoka	0.00	0.00							
42	H-1E02	30.0 MMBTU/hr/Drill Site 1E Heater	GTS Energy	721.0	1.72							
43	H-1F01	14.9 MMBTU/hr/Drill Site 1F Heater	BSSB	721.0	9.73							
44	H-1G01	14.9 MMBTU/hr/Drill Site 1G Heater	BSSB	721.0	9.73							
45	H-1F-1901	16.4 MMBTU/hr/Drill Site 1H Heater	Latoka	721.0	3.54							
46	H-1J01A	36.8 MMBTU/hr/Drill Site 1J Heater A	Petro Chem	720.9	7.85							
47	H-1J01B	36.8 MMBTU/hr/Drill Site 1J Heater B	Petro Chem	720.9	7.65							
48	H-1Q01	21.0 MMBTU/hr/Drill Site 1Q Heater	BSSB	721.0	13.77							
49	H-1R01	17.2 MMBTU/hr/Drill Site 1R Heater	BSSB	721.0	11.25							
50	H-1Y01	14.9 MMBTU/hr/Drill Site 1Y Heater	BSSB	0.00	0.00							
Group VI SUBTOTALS				8651.83	109.1							
FACILITY TOTALS				827.4		0.00						

Additional INCINERATOR INFORMATION

H-250 Monthly Solid Waste Throughput (tons): 46.7 12-months (tons): 562.7
H-347 Monthly Solid Waste Throughput (tons): 0.0 12-months (tons): 0.0
Maximum Monthly Charge Rate (lbs/hr): 0.00

Based on the information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Date: 2/6/2019

DENNIS E. MELTON
Dennis E. Melton

Reviewed by: Operations Superintendent - Printed Name

Operations Superintendent - Signature
Original: Environmental

Generated on 27-JAN-19 06:47

ConocoPhillips Alaska, Inc.
CPF1 Monthly Facility Operating Report
CPF1 Title V Permit # 267TVP01
December 2018

No. Tag No.	Rating/Service	Vendor/Model	Fuel Gas (hrs)	Fuel Used (MMSCF)	Diesel (hrs)	Diesel (Gal)	YTD Diesel (hrs)	12 Month Diesel (hrs)	Non-Emerg (hrs)	12 Month non-Emerg (hrs)	Emerg (hrs)	12 Month Emerg (hrs)
Group I - Gas Turbines												
1	C-2101-A	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	743.5	106.3							
2	C-2101-B	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	743.7	103.2							
3	C-2101-C	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	744.0	103.7							
4	G-201-A	4.9 MHP/Electric Generator	Ruston/TB5000	744.0	26.66	0.00	0.00	0.00	0.00			
5	G-201-B	4.9 MHP/Electric Generator	Ruston/TB5000	494.2	18.76	0.00	0.00	0.00	0.00			
6	G-201-C	4.9 MHP/Electric Generator	Ruston/TB5000	250.4	8.86	0.00	0.00	0.00	0.00			
7	G-201-D	4.9 MHP/Electric Generator	Ruston/TB5000	744.0	26.50	0.00	0.00	0.00	0.00			
8	G-3201-E	4.9 MHP/Electric Generator	Ruston/TB5000	194.4	6.78	0.00	0.00	0.00	0.00			
9	G-3201-F	4.9 MHP/Electric Generator	Ruston/TB5000	182.4	5.73	0.00	0.00	0.00	0.00			
10	P-2202-A	5.4 MHP/Water Injection Pump	Ruston/TB5400	744.0	33.88							
11	P-2202-B	5.4 MHP/Water Injection Pump	Ruston/TB5400	698.6	29.31							
12	P-CL07-A	5.4 MHP/Water Injection Pump	Ruston/TB5400	744.0	29.78	0.00	0.00	0.00	0.00			
13	P-CL07-B	5.4 MHP/Water Injection Pump	Ruston/TB5400	743.5	30.29	0.00	0.00	0.00	0.00			
14	G-3203	53.5 MHP/Electric Generator	GE/Frame 6	744.0	243.6							
		Group I SUBTOTALS		8514.69	775.3	0.00	0.00	0.00	0.00			
Group II - Fired Heaters												
15	H-201	27.8 MMBTU/hr Emergency Bld Heater	Broach	0.00	0.00	0.00	0.00	0.00	0.00			
16	G1-14-01	44.4 MMBTU/hr KUTP Heater	Born	732.50	20.39							
												Max Dry Avg = 0.0281 MMSCF/hr
17	H-3204	9.7 MMBTU/hr Fuel Gas Heater	Kvaerner Process	744.00	1.05							
17	H-3204	9.7 MMBTU/hr Fuel Gas Heater (FBU FG)	Kvaerner Process	0.00	0.00							
18	H-102A	4.375 MMBTU/hr Air Heater	ICE MFG Ltd.	0.00	0.00	0.00	0.00	0.00	0.00			
		Group II SUBTOTALS		1476.50	21.440	0.00	0.00	0.00	0.00			
Group III - Diesel Fired Equip												
19	G-701-A	1086 HP Emergency Generator	Waukesha			0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	G-701-B	1086 HP Emergency Generator	Waukesha			0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	P-CL04-ECC	215 HP Water Booster Pump	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	P-1A02	240 HP Freeze Protect Pump (1A)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	P-1F02	240 HP Freeze Protect Pump (1F)	Detroit Diesel			0.00	0.00	0.75	0.75	0.00	0.75	0.00
24	P-1G02	240 HP Freeze Protect Pump (1G)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	P-1L02	300 HP Freeze Protect Pump (1L)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	P-1Q02	300 HP Protect Pump (1Q)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	P-1R02	300 HP Protect Pump (1R)	Detroit Diesel			0.00	0.00	0.53	0.53	0.00	0.53	0.00
28	P-1Y02	300 HP Protect Pump (1Y)	Detroit Diesel			0.00	0.00	0.78	0.78	0.00	0.00	0.78
		Group III SUBTOTALS				0.00	0.00	2.06	2.06	0.00	1.28	0.00
Group IV - Flares												
29	H-101B	East Flare Tip	McGill	0.00								
30	H-KF01	1-58 VS LP Flare Tip (Smokeless)	Kaldair	744.00								
31	H-KF02	1-87 FS HP Flare Tip (Smokeless)	Kaldair	744.00								
32	H-CR01A	West NGL Flare	McGill	0.00								
33	H-CR01B	East NGL Flare	McGill	744.00								
		Group IV SUBTOTALS		2232.00	52.071							
Group V - Incinerators												
35	H-250	1300 lb/hr Incinerator	Compro	696.0	2.30							
36	H-347	900 lb/hr Incinerator	Compro	0.00	0.00							
		Group V SUBTOTALS		696.00	2.30							
Group VI - Drill Site Heaters												
37	H-1A01	16.4 MMBTU/hr/Drill Site 1A Heater	Latoka	744.0	11.09							
38	H-1B01	16.4 MMBTU/hr/Drill Site 1B Heater	Latoka	744.0	11.09							
39	H-2V01	14.5 MMBTU/hr/Drill Site 1C Heater	CE NATCO	744.0	9.82							
40	H-3F01	19.6 MMBTU/hr/Drill Site 1D Heater	CE NATCO	744.0	13.24							
41	H-1E01	16.4 MMBTU/hr/Drill Site 1E Heater	Latoka	0.00	0.00							
42	H-1E02	30.0 MMBTU/hr/Drill Site 1E Heater	GTS Energy	744.0	1.94							
43	H-1F01	14.9 MMBTU/hr/Drill Site 1F Heater	BSBB	744.0	10.04							
44	H-1G01	14.9 MMBTU/hr/Drill Site 1G Heater	BSBB	744.0	10.04							
45	H-1F-1901	16.4 MMBTU/hr/Drill Site 1H Heater	Latoka	744.0	3.62							
46	H-1Q01A	36.8 MMBTU/hr/Drill Site 1J Heater A	Petro Chem	744.0	8.24							
47	H-1Q01B	36.8 MMBTU/hr/Drill Site 1J Heater B	Petro Chem	744.0	8.01							
48	H-1Q01	21.0 MMBTU/hr/Drill Site 1Q Heater	BSBB	744.0	14.21							
49	H-1R01	17.2 MMBTU/hr/Drill Site 1R Heater	BSBB	744.0	11.61							
50	H-1Y01	14.9 MMBTU/hr/Drill Site 1Y Heater	BSBB	0.00	0.00							
		Group VI SUBTOTALS		8928.00	112.9							
		FACILITY TOTALS		964.1	0.00							

Additional INCINERATOR INFORMATION

H-250 Monthly Solid Waste Throughput (tons): 49.0 12-months (tons): 564.5
H-347 Monthly Solid Waste Throughput (tons): 0.0 12-months (tons): 0.0
Maximum Monthly Charge Rate (lbs/hr): 0.00

Based on the information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Date: 1/13/19

Reviewed by: Operations Superintendent - Printed Name

DENNIS E. MELTON

Operations Superintendent - Signature

Original: Environmental

Dennis E. Melton

Generated on 12-JAN-19 05:01

Conocophillips Alaska, Inc
Kuparuk River Unit Central Processing Facility 1 (CPF-1)
Waste Water Treatment Plant
Air Quality Operating Permit Number 267TVP01
Facility Operating Report
OCT-2018

Group No.	Tag No.	Rating/Duty	Monthly Max Charge lb/hr	Run Time (hrs)	Fuel Used (MMCF)	Fuel Used (tons)	Estimated Waste (Cubic Yards)	Estimated Waste (Tons)
Group V Incinerators	H-250	1350 Lb/Hr Waste Incinerator Source 35		675.5	2.22915	54.6	466.8	48.6
	H-347	900 Lb/Hr Waste Incinerator Source 36	0 (limit 765/hr)	0	0	0	0	0
Total Monthly:					2.22915	54.6	466.8	48.6

H2S Concentration (ppm)
Mean

Auxiliary Fuel
Same as CPF1 Fuel Gas

Reviewed by: Wanda D. Hoyt 11/01/2018

Return to Kuparuk Environmental Compliance - NSK 61

SCADA report generated on Thursday, 01-NOV-2018 06:55:12
 Send inquiries regarding this report to: n1728@conocophillips.com

ConocoPhillips Alaska, Inc., WWTP, Kuparuk, Alaska
 (*)

Conocophillips Alaska, Inc
Kuparuk River Unit Central Processing Facility 1 (CPF-1)
Waste Water Treatment Plant
Air Quality Operating Permit Number 267TVP01
Facility Operating Report
NOV-2018

Group No.	Tag No.	Rating/Duty	Monthly Max Charge lb/hr	Run Time (hrs)	Fuel Used (MMCF)	Fuel Used (tons)	Estimated Waste (Cubic Yards)	Estimated Waste (Tons)
Group V Incinerators	H-250	1350 Lb/Hr Waste Incinerator Source 35		665	2.1945	53.8	448.8	46.8
	H-347	900 Lb/Hr Waste Incinerator Source 36	0 (limit 765/hr)	0	0	0	0	0
Total Monthly:					2.1945	53.8	448.8	46.8

H2S Concentration (ppm)
Mean

Auxiliary Fuel
Same as CPF1 Fuel Gas

Reviewed by: David Hays 12-01-2018

Return to Kuparuk Environmental Compliance - NSK 61

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ConocoPhillips Alaska, Inc., WWTP, Kuparuk, Alaska
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ConocoPhillips Alaska, Inc
Kuparuk River Unit Central Processing Facility 1 (CPF-1)
Waste Water Treatment Plant
Air Quality Operating Permit Number 267TVP01
Facility Operating Report
DEC-2018

Group No.	Tag No.	Rating/Duty	Monthly Max Charge lb/hr	Run Time (hrs)	Fuel Used (MMCF)	Fuel Used (tons)	Estimated Waste (Cubic Yards)	Estimated Waste (Tons)
Group V Incinerators	H-250	1350 Lb/Hr Waste Incinerator Source 35		696	2.2968	56.3	470.4	49
	H-347	900 Lb/Hr Waste Incinerator Source 36	0 (mt: 765/hr)	0	0	0	0	0
Total Monthly:					2.2968	56.3	470.4	49

H2S Concentration (ppm)
Mean

Auxiliary Fuel
Same as CPF1 Fuel Gas

Reviewed by: *Wesley J. Haynes* 1-1-2019

Return to Kuparuk Environmental Compliance - NSK 61

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ConocoPhillips Alaska, Inc., WWTP, Kuparuk, Alaska
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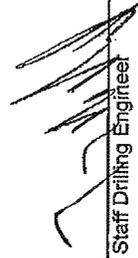
Date	Nabors 7ES	Nabors 9ES	Nabors CDR2	Nordic 3	Flowback
10/1/2018	10/14/2018	N/A	N/A	N/A	N/A
10/31/2018	10/23/2018	N/A	N/A	N/A	N/A

EU-ID	Type	Equipment Use	Description	Rating	Monthly Total	Rig Total for Month	All Rigs Total (Rolling Yearly Total gal/yr)	12 Month Operational Limit (gal/yr)			
Equipment											
Doyon 141 Engines											
58	Generator	Primary/Reserve	Cat 3791A	1030 Kw	0	0	974	3,159,000 (for 1st 24 months, then 316,200 thereafter) March 26, 2006 is the end of the 24 month period			
58	Generator	Primary/Reserve	Cat 3791A	1030 Kw	0	0					
58	Generator	Primary/Reserve	Cat 3791A	1030 Kw	0	0					
58	Generator	Primary/Reserve	#1 Cat 3512B	1101 Kw	422	974					
58	Generator	Primary/Reserve	#2 Cat 3512B	1101 Kw	137	974					
58	Generator	Primary/Reserve	#3 Cat 3412	817 BHP	415	974					
Nabors CDR2 Engines											
58	Generator	Primary/Reserve	Cat C-18	700 Kw	0	0					
58	Generator	Primary/Reserve	Cat C-18	700 Kw	0	0					
58	Generator	Primary/Reserve	Cat C-18	700 Kw	0	0					
Nabors 3S Engines											
58	Generator	Primary/Reserve	Cat 3408	700 Kw	0	0					
58	Generator	Primary/Reserve	Cat 3408	700 Kw	0	0					
58	Generator	Primary/Reserve	Cat 3408	700 Kw	0	0					
EU-ID Boilers and Heaters											
59	Boilers	Nabors 7ES Boilers (2)	Superior	150 HP	6,862	6,931	6,931	1,476,000			
59	Heaters	Doyon 141 Heaters (1)	Dicks	4.2 MM BTU	0				6,931		
59	Boilers	Nabors 9ES (2)	Superior	150 HP	0				6,931		
59	Heaters	Nabors 9ES	Iron Fire	2.42 MM BTU	0				6,931		
59	Boilers	Nordic 3 Boilers (2)	Cleaver-Brooks	80 HP	0				6,931		
59	Heaters	Nordic 3 Heaters (1)	Tloga	4.5 MM BTU	0				6,931		
59	Boilers	Nabors CDR2 Boilers (2)	Superior	100 HP	0				6,931		
59	Heaters	Nabors CDR2 Heater (2)	Tloga	2.5 MM BTU	0				6,931		
59	Heaters	N7ES Shop Heaters (2)			69				6,931		
EU-ID Rig Camp Engines											
60	Generator	Doyon 141	Cat 379	400 Kw	0				0	0	54,400
60	Generator	Doyon 15	Cummins	150 Kw	0				0		
60	Generator	Doyon 15-Cruz Camp	John Deere	40 Kw	0	0					
60	Generator	Nabors 9ES	Cat 3304	300Kw	0	0					
60	Generator	Nordic 3	Cat 3406 C (2)	320 Kw	0	0	0	0			

Maximum Daily "Primary/Reserve" Fuel Consumption during Month (gals/Date)

702	10/15/2018
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EU-ID 58 Max Daily Limit: 5,170 gallons (applies after the first 24-months of drilling only)


 Staff Drilling Engineer

Date 1/22/2019

ConocoPhillips Alaska, Inc.
 Air Quality Permit No AQ02677VP01, Rev. 2
 Drill Site 1E and 1J
 Drilling Rig Fuel Use Permit Conditions 10.5 and 10.6

Date	Doyon 141	Doyon 15	Nabors 9ES	Nordic 3	Flowback
11/1/2018	N/A	N/A	N/A	N/A	N/A
11/30/2018	N/A	N/A	N/A	N/A	N/A

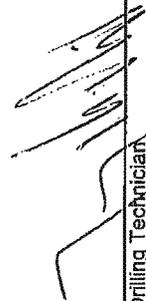
EU-ID	Equipment Type	Equipment Use	Description	Rating	Monthly Total	Rig Total for Month	All Rigs Total (Rolling Yearly Total gal/yr)	12 Month Operational Limit (gal/yr)		
Doyon 141 Engines										
58	Generator	Primary/Reserve	Cat 379TA	1030 Kw	0	0	974	3,159,000 (for 1st 24 months, then 316,200 thereafter) March 26, 2006 is the end of the 24 month period		
58	Generator	Primary/Reserve	Cat 379TA	1030 Kw	0	0				
58	Generator	Primary/Reserve	Cat 379TA	1030 Kw	0	0				
Nabors 9ES Engines										
58	Generator	Primary/Reserve	#1 Cat 3512B	1101 Kw	0	0	974		3,159,000 (for 1st 24 months, then 316,200 thereafter) March 26, 2006 is the end of the 24 month period	
58	Generator	Primary/Reserve	#2 Cat 3512B	1101 Kw	0	0				
58	Generator	Primary/Reserve	#3 Cat 3412	817 BHP	0	0				
Nabors 7ES Engines										
58	Generator	Primary/Reserve	Cat 3512 B	1400 Kw	0	0	974			3,159,000 (for 1st 24 months, then 316,200 thereafter) March 26, 2006 is the end of the 24 month period
58	Generator	Primary/Reserve	Cat 3512 B	1400 Kw	0	0				
58	Generator	Primary/Reserve	Cat 3412	800 Kw	0	0				
Nabors CDR2 Engines										
58	Generator	Primary/Reserve	Cat C-18	700 Kw	0	0	974	3,159,000 (for 1st 24 months, then 316,200 thereafter) March 26, 2006 is the end of the 24 month period		
58	Generator	Primary/Reserve	Cat C-18	700 Kw	0	0				
58	Generator	Primary/Reserve	Cat C-18	700 Kw	0	0				
Boilers and Heaters										
59	Boilers	Doyon 141 Boilers (2)	Kewanee	100 HP	0	0	6,931		1,476,000	
59	Heaters	Doyon 141 Heaters (1)	Dicks	4.2 MM BTU	0	0				
59	Boilers	Nabors 9ES (2)	Superior	50 HP	0	0				
59	Heaters	Nabors 9ES	Iron Fire	2.42 MM BTU	0	0				
59	Boilers	Nordic 3 Boilers (2)	Cleaver-Brooks	80 HP	0	0				
59	Heaters	Nordic 3 Heaters (1)	Tioga	4.5 MM BTU	0	0				
59	Boilers	Nabors 7ES Boilers (2)	Superior	50 HP	0	0				
59	Heaters	Nabors 7ES Heater (1)	Iron Fire	2.5 MM BTU	0	0				
59	Heaters	N9ES Shop Heaters (2)	N9ES	23 MM BTU	0	0				
Rig Camp Engines										
60	Generator	Doyon 141	Cat 379	400 Kw	0	0		0		54,400
60	Generator	Doyon 15	Cummins	150 Kw	0	0				
60	Generator	Doyon 15-Cruz Camp	John Deere	40 Kw	0	0				
60	Generator	Nabors 9ES	Cat 3304	300 Kw	0	0				
60	Generator	Nordic 3	Cat 3496	320 Kw	0	0				

Maximum Daily "Primary/Reserve" Fuel Consumption during Month (gals/Date)

N/A

EU-ID 58 Max Daily Limit: 5,170 gallons (applies after the first 24-months of drilling only)

Reset to zero on April 1, 2006 due to March 24, 2006 permit revision



Date 1/11/2019

Drilling Technician

ConocoPhillips Alaska, Inc.
 Air Quality Permit No AQ0267TVP01, Rev. 2
 Drill Site 1E and 1J
 Drilling Rig Fuel Use Permit Conditions 10.5 and 10.6

Date	Doyon 141	Doyon 15	Nabors 245	Nordic 3	Flowback
12/1/2018	N/A	N/A	N/A	N/A	N/A
12/31/2018	N/A	N/A	N/A	N/A	N/A

EU-ID	Doyon 141 Engines	Equipment Use	Description	Rating	Monthly Total	Rig Total for Month	All Rigs Total (Rolling Yearly Total gal/yr)	12 Month Operational Limit (gal/yr)		
58	Generator	Primary/Reserve	Cat:399TA	1030 Kw	0	0	974	3,159,000 (for 1st 24 months, thereafter) March 26, 2006 is the end of the 24 month period		
58	Generator	Primary/Reserve	Cat 399TA	1030 Kw	0	0				
58	Generator	Primary/Reserve	Cat:399TA	1030 Kw	0	0				
58	Generator	Primary/Reserve	#1 Cat:3516	1600 Kw	0	0				
58	Generator	Primary/Reserve	#2 Cat:3516	1600 Kw	0	0				
58	Generator	Primary/Reserve	#3 Cat:3516	1600 Kw	0	0				
58	Generator	Primary/Reserve	#4 Cat:399	900 Kw	0	0				
Nordic 3 Engines										
58	Generator	Primary/Reserve	Cat:3512 B	1400 Kw	0	0				
58	Generator	Primary/Reserve	Cat 3512 B	1400 Kw	0	0				
58	Generator	Primary/Reserve	Cat:3512 B	1400 Kw	0	0				
Nabors 3S Engines										
58	Generator	Primary/Reserve	Cat:3408	700 Kw	0	0				
58	Generator	Primary/Reserve	Cat 3408	700 Kw	0	0				
58	Generator	Primary/Reserve	Cat:3408	700 Kw	0	0				
58	Generator	Primary/Reserve	Cat 3408	700 Kw	0	0				
EU-ID Boilers and Heaters										
59	Boilers	Doyon 141 Boilers (2)	Kewanee	100 HP	0	0				
59	Heaters	Doyon 141 Heaters (1)	Dicks	4.2 MM BTU	0	0				
59	Boilers	Doyon 15 Boilers (2)	Superior	100 HP	0	0				
59	Heaters	Doyon 15 (2)	Dicks	5.0 MM BTU	0	0				
59	Boilers	Nordic 3 Boilers (2)	Cleaver-Brooks	80 HP	0	0				
59	Heaters	Nordic 3 Heaters (1)	Tioga	4.5 MM BTU	0	0				
59	Boilers	Nabors 3S Boilers (2)	ABCO	100 HP	0	0				
59	Heaters	Nabors 3S Heater (1)	Tioga	2.5 MM BTU	0	0				
59	Heaters	Flowback Heaters (3)	PTS	3.0 MM BTU	0	0				
EU-ID Rig Camp Engines										
60	Generator	Doyon 14 (2)	Cat:379	400 Kw	0	0				
60	Generator	Doyon 15	Cummins	150 Kw	0	0				
60	Generator	Doyon 15-Cruz Camp	John Deere	40 Kw	0	0				
60	Generator	Nabors 3S	Cat:3304	300 Kw	0	0				
60	Generator	Nordic 3	Cat:3406 C (2)	320 Kw	0	0				

Maximum Daily "Primary/Reserve" Fuel Consumption during Month (gals/Date) N/A
 EU-ID 58 Max Daily Limit: 5,170 gallons (applies after the first 24-months of drilling only)
 Reset to zero on April 1, 2006 due to March 24, 2006 permit revision

Renee Keaady
 Staff Drilling Engineer
 Date: 1/11/2019

ConocoPhillips Alaska, Inc.
 Air Quality Operating Permit No. AQ0267VP01, Rev. 2 (Conditions 10.5 & 10.6)
 Drill Sites 1E and 1J (Combined)
 Well Servicing Equipment Diesel Fuel Use

Date
 From: 1-Oct-18
 Thru: 31-Oct-18

Unit ID No.	Emission Unit Description	Daily Maximum for the Period (gal/day)	Short Term Limit (gal/day) [from Condition 17]	Total per Month (gal)	Rolling 12-month Total (gal/year)	Rolling 12-month Operation Limit (gal/year) [from Condition 16]
61	Well Service Heaters	243	2,700	11,626	149,904	200,000
62	Well Service IC Engines	0	20,100	1,710	35,853	177,800
63	Frac Unit IC Engines	0	0	0	0	50,000

Note: The limits shown in this report were "rescinded" when Minor Permit AQ0267MSS06 was issued on March 28, 2014. However, the limits still apply until the ADEC issues a renewed or revised CPF-1 operating permit that incorporates the terms and provisions of Minor Permit AQ0267MSS06.

Approved by:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Reviewed by:

[Signature] 11/13/18

ConocoPhillips Alaska, Inc. - Wells Superintendent

Date:

ConocoPhillips Alaska, Inc.
 Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (Conditions 10.5 & 10.6)
 Drill Sites 1E and 1J (Combined)
 Well Servicing Equipment Diesel Fuel Use

Date
 From: 1-Nov-18
 Thru: 30-Nov-18

Unit ID No.	Emission Unit Description	Daily Maximum for the Period (gal/day)	Short Term Limit (gal/day) [from Condition 17]	Total per Month (gal)	Rolling 12-month Total (gal/year)	Rolling 12-month Operation Limit (gal/year) [from Condition 16]
61	Well Service Heaters	431	2,700	9,403	143,815	200,000
62	Well Service IC Engines	0	20,100	2,931	36,477	177,800
63	Frac Unit IC Engines	0	0	0	0	50,000

Note: The limits shown in this report were "rescinded" when Minor Permit AQ0267MSS06 was issued on March 28, 2014. However, the limits still apply until the ADEC issues a renewed or revised CPF-1 operating permit that incorporates the terms and provisions of Minor Permit AQ0267MSS06.

Approved by:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Reviewed by: *[Signature]* 12/15/18

ConocoPhillips Alaska, Inc. - Wells Superintendent Date:

ConocoPhillips Alaska, Inc.
 Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (Conditions 10.5 & 10.6)
 Drill Sites 1E and 1J (Combined)
 Well Servicing Equipment Diesel Fuel Use

Date: 1-Dec-18
 From: 1-Dec-18
 Thru: 31-Dec-18

Unit ID No.	Emission Unit Description	Daily Maximum for the Period (gal/day)	Short Term Limit (gal/day) [from Condition 17]	Total per Month (gal)	Rolling 12-month Total (gal/year)	Rolling 12-month Operation Limit (gal/year) [from Condition 16]
61	Well Service Heaters	602	2,700	8,848	153,240	200,000
62	Well Service IC Engines	0	20,100	3,134	37,627	177,800
63	Frac Unit IC Engines	0	0	0	0	50,000

Note: The limits shown in this report were "rescinded" when Minor Permit AQ0267MSS06 was issued on March 28, 2014. However, the limits still apply until the ADEC issues a renewed or revised CPF-1 operating permit that incorporates the terms and provisions of Minor Permit AQ0267MSS06.

Approved by:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information and attached to this document are true, accurate, and complete.

Reviewed by: *[Signature]* 11/10/19
 Date: _____

ConocoPhillips Alaska, Inc. - Wells Superintendent

Attachment 3

Monthly and 12-Month Rolling Total Actual Emission Summary

ConocoPhillips Alaska, Inc.
Total Monthly Actual Emissions Summary
 Kuparuk Central Production Facility No. 1
 2018

Version 2018.13

Turbines - Units 1 - 3 and 8 - 13

Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
NO _x	80.50	70.21	79.54	76.46	75.27	76.47	75.87	75.27	73.00	74.39	65.13	80.42	902.5
CO	19.75	17.42	19.38	18.63	18.54	18.77	18.62	18.35	17.79	18.17	16.03	19.67	220.6
VOC	0.51	0.44	0.50	0.48	0.47	0.48	0.48	0.47	0.46	0.47	0.41	0.50	5.7
SO ₂	3.54	3.23	4.61	3.78	3.66	4.11	4.34	4.31	4.14	4.17	3.46	4.05	47.4
PM ₁₀	3.31	2.87	3.24	3.12	3.07	3.14	3.12	3.07	2.98	3.04	2.68	3.29	36.9

Turbines - Units 1 - 3

Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
NO _x	57.9	51.1	57.1	55.5	54.0	51.8	51.7	52.9	51.9	54.5	44.2	57.0	639.5

Heaters - Units 16, 37 - 41, 43 - 45, and 48 - 50

Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
NO _x	6.5	6.0	6.7	6.4	6.7	5.9	6.3	6.1	6.2	6.7	6.5	6.8	76.9
CO	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.2	13.8
SO ₂	0.87	0.84	1.2	0.97	1.0	0.96	1.1	1.1	1.1	1.1	1.0	1.0	12.3
PM ₁₀	0.16	0.15	0.16	0.16	0.16	0.14	0.16	0.15	0.15	0.16	0.16	0.17	1.9

Incinerator - Unit 36

Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
NO _x	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
SO ₂	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
PM ₁₀	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Permit Limit
H ₂ S ppmv in Lift Gas Tie Line	92.7	97.7	123.0	104.9	103.1	113.2	120.5	121.4	120.4	118.6	111.5	106.6	200 ppmv (24-hr avg)
H ₂ S ppmv in PBU Gas	NA	200 ppmv (24-hr avg)											
H ₂ S ppmv in Flared Gas	115.2	130.8	133.0	111.6	99.1	102.9	95.7	92.1	96.9	111.6	115.0	119.3	---
Sulfur Content in LEPD (wt%)	0.119	0.107	0.107	0.118	0.109	0.109	0.112	0.119	0.118	0.122	0.123	0.106	0.5 wt%

Note: NA or Not Applicable means that PBU gas wasn't burned in emission units that month.

ConocoPhillips Alaska, Inc.
Total Monthly Actual SO₂ Emissions Summary
 Kuparuk DSIE/IJ Drill Rig Heaters/Boilers, Production Heaters, Portable Flare
 2018

Version 2018.13

Unit	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
BU ID 59 Drill Rig Heaters & Boilers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06
EU IDs 42, 46, & 47 Production Heaters	0.16	0.15	0.22	0.17	0.17	0.15	0.17	0.17	0.17	0.18	0.16	0.16	2.0
EU ID 34 Portable Flare	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DSIE & DSIJ Emission Units

H ₂ S ppmv in Lift Gas Tie Line	92.7	97.7	123.0	104.9	103.1	113.2	120.5	121.4	120.4	118.6	111.5	196.6
Sulfur Content in ULSD (wt%)	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000608	0.000300
Sulfur Content in LEPD (wt%)	0.119	0.107	0.107	0.118	0.109	0.109	0.112	0.119	0.118	0.122	0.123	0.106

ConocoPhillips Alaska, Inc.
Total Monthly Actual VOC Emissions Summary
 Kuparuk DSIE/IJ Temporary Crude Oil Storage Tanks (EU ID 56)
 2018

Version 2018.13

Location	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
DSIE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DSIJ	0.000	0.000	0.000	0.000	0.000	0.000	6.282	0.000	4.262	0.000	0.000	0.000	10.544

ConocoPhillips Alaska, Inc.
12-Month Running Total Actual Emissions Summary
 Kuparuk Central Production Facility No. 1
 2018

Version 2018.13

Turbines - Units 1 - 3 and 8 - 13

12-Month Period Ending:													
Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
NO _x	894.4	887.9	886.6	890.7	892.8	895.3	897.6	899.9	899.6	900.2	904.3	902.5	2,046 tons
CO	218.8	217.0	216.7	217.7	218.2	218.9	219.4	220.0	219.9	220.1	221.3	220.6	612 tons
VOC	5.6	5.6	5.5	5.6	5.6	5.8	5.8	5.8	5.6	5.6	5.7	5.7	7.5 tons
SO ₂	43.8	43.8	44.8	45.5	45.7	45.9	46.1	46.3	46.1	46.5	47.3	47.4	109 tons
PM ₁₀	36.6	36.3	36.3	36.4	36.5	36.6	36.7	36.8	36.8	36.8	37.0	36.9	50 tons

Turbines - Units 1 - 3

12-Month Period Ending:													
Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
NO _x	638.3	637.0	635.7	637.3	638.1	638.2	638.4	639.4	639.8	639.2	639.8	639.5	824 tons

Heaters - Units 16, 37 - 41, 43 - 45, and 48 - 59

12-Month Period Ending:													
Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
NO _x	77.2	77.1	77.1	76.9	77.2	77.5	78.0	77.2	76.6	76.7	76.8	76.9	124 tons
CO	13.9	13.9	13.9	13.8	13.9	13.9	14.0	13.9	13.8	13.8	13.8	13.9	44 tons
SO ₂	11.5	11.5	11.8	11.9	12.0	12.1	12.3	12.1	11.9	12.0	12.2	12.3	33 tons
PM ₁₀	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	14 tons

Incinerator - Unit 36

12-Month Period Ending:													
Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
NO _x	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8 tons
CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17 tons
VOC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1 tons
SO ₂	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4 tons
PM ₁₀	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12 tons

H ₂ S ppmv in Lift Gas Tie Line 12-mth avg	103.7	104.3	105.8	108.0	108.3	108.3	108.7	108.7	108.2	109.2	110.6	111.1	200 ppmv
H ₂ S ppmv in PBU Gas 12-mth avg	---	---	---	---	---	---	---	---	---	---	---	---	200 ppmv

ConocoPhillips Alaska, Inc.
12-Month Running Total Actual SO₂ Emissions Summary
 Kuparuk DS1E/1J Drill Rig Heaters/Boilers, Production Heaters, Portable Flare
 2018

Version 2018.13

12-Month Period Ending:													
Unit	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
EU ID 59 Drill Rig Heaters & Boilers	0.17	0.17	0.09	0.08	0.08	0.08	0.08	0.07	0.0	0.06	0.06	0.06	N/A
EU IDs 42, 46, & 47 Production Heaters	1.8	1.8	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	N/A
EU ID 34 Portable Flare	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	35 tons

DS1E & DS1J Emission Units

H ₂ S ppmv in Lift Gas Tie Line Monthly Analytical Results	92.7	97.7	123.0	104.9	105.1	113.2	120.5	121.4	120.4	118.6	111.5	106.6	275 ppmv (instantaneous)
Sulfur Content in ULSD (wt%) Monthly analytical results	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000300	0.000608	0.000300	0.0015 Wt %
Sulfur Content in LEPD (wt%) Monthly analytical results	0.119	0.107	0.107	0.118	0.109	0.109	0.112	0.119	0.118	0.122	0.123	0.106	0.15 Wt %

ConocoPhillips Alaska, Inc.
12-Month Running Total Actual VOC Emissions Summary
 Kuparuk DS1E/1J Temporary Crude Oil Storage Tanks (EU ID 56)
 2018

Version 2018.13

12-Month Period Ending:													
Location	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
DS1E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	N/A
DS1J	0.000	0.000	0.000	0.000	0.000	0.000	6.282	6.282	10.544	10.544	10.544	10.544	N/A
Total	0.000	0.000	0.000	0.000	0.000	0.000	6.282	6.282	10.544	10.544	10.544	10.544	34 tons

ConocoPhillips Alaska, Inc.
Stationary Source Total Fuel Consumption Summary
 Kuparuk Central Production Facility No. 1
TVP01 Permit Condition 10.4
2018

Version 2018.13

Unit	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year to Date Total
Group I Gas Turbines (IDs 1-14) (MMSCF)	780.9	673.1	750.6	721.0	718.5	643.6	684.3	653.3	668.2	697.7	646.7	775.3	8,413.2
Group I Gas Turbines (IDs 1-14) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Group II Heaters (IDs 15-18) (MMSCF)	19.7	17.9	20.5	20.4	21.9	10.9	18.6	13.5	18.3	20.1	19.7	21.4	223.0
Group II Heaters (IDs 15-18) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Group III Diesel Fired Equipment (IDs 19-28) (Gallons)	6.2	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	20.2	0.0	0.0	29.5
Group IV Flares (IDs 29-34) (MMSCF)	55.7	45.8	54.6	50.0	49.7	49.1	46.7	33.8	32.6	41.1	49.8	52.1	560.9
Group V Incinerators (IDs 35-36) (MMSCF)	2.2	1.9	2.1	2.4	2.3	2.3	2.5	2.2	2.1	2.2	2.2	2.3	26.7
Group VI Drill Site Heaters (IDs 37-50) (MMSCF)	112.7	103.3	115.1	110.1	112.6	106.2	106.2	108.7	104.6	112.4	109.1	113.0	1,313.8
Drill Rig Engines (ID 58) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	974.0	0.0	0.0	974.0
Drill Rig Hrs and Boilers (ID 59) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,931.0	0.0	0.0	6,931.0
Drill Rig Camp Engines (ID 60) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well Servicing Heaters (ID 61) (Gallons)	22,071.0	37,424.0	12,777.0	18,574.0	5,703.0	5,131.0	5,120.0	1,994.0	14,569.0	11,626.0	9,403.0	8,848.0	153,240.0
Well Servicing Engines (ID 62) (Gallons)	3,616.0	2,609.0	2,947.0	5,954.0	1,607.0	7,140.0	1,381.0	1,343.0	3,255.0	1,710.0	2,931.0	3,134.0	37,627.0
Well Frac Unit Engines (ID 63) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total Stationary Source Diesel (Gallons)	23,693.2	40,033.0	15,724.0	24,528.0	7,310.0	12,271.0	6,501.0	3,340.1	17,824.0	21,261.2	12,334.0	11,982.0	198,801.5
Grand Total Stationary Source Fuel Gas (MMSCF)	971.1	842.0	942.9	903.7	905.1	812.2	858.3	811.5	825.8	873.6	827.4	964.0	10,537.7

Attachment 4

**Copies of Excess Emission/Permit Deviation Reports Not Previously
Submitted to ADEC during the reporting period**

Section 20. ADEC Notification Form

Fax this form to: (907) 451-2187 Telephone: (907) 451-5173

ConocoPhillips Alaska, Inc.

Company Name

Kuparuk Central Production Facility #1

Facility Name

Reason for notification:

Excess Emissions

If you checked this box

Fill out section 1

Other Deviation from Permit Condition

If you checked this box

fill out section 2

When did you discover the Excess Emissions or Other Deviation:

Date: 1/25/2019 Time: 06:30

Section 1. Excess Emissions

(a) Event Information (Use 24-hour clock):

START Time:

END Time:

Duration (hr:min):

Total:

(b) Cause of Event (Check all that apply):

START UP

UPSET CONDITION

CONTROL EQUIPMENT

SHUT DOWN

SCHEDULED MAINTENANCE

OTHER

Attach a detailed description of what happened, including the parameters or operating conditions exceeded.

(c) Sources Involved:

Identify each emission source involved in the event, using the same identification number and name as in the permit. List any control device or monitoring system affected by the event. Attach additional sheets as necessary.

<u>Source ID No.</u>	<u>Source Name</u>	<u>Description</u>	<u>Control Device</u>

(d) Emission Limit Potentially Exceeded

Identify each emission standard potentially exceeded during the event. Attach a list of ALL known or suspected injuries or health impacts. Identify what observation or data prompted this report. Attach additional sheets as necessary.

<u>Permit Condition</u>	<u>Limit</u>	<u>Emissions Observed</u>

(e) Excess Emission Reduction:

Attach a description of the measures taken to minimize and/or control emissions during the event.

(f) Corrective Actions:

Attach a description of corrective actions taken to restore the system to normal operation and to minimize or eliminate chances of a recurrence.

(g) Unavoidable Emissions:

Do you intend to assert that these excess emissions were unavoidable?

YES NO

Do you intend to assert the affirmative defense of 18 AAC 50.235?

YES NO

Section 2. Other Permit Deviations

(a) Sources Involved:

Identify each emission source involved in the event, using the same identification number and name as in the permit. List any control device or monitoring system affected by the event. Attach additional sheets as necessary.

<u>Source ID No.</u>	<u>Source Name</u>	<u>Description</u>	<u>Control Device</u>
16	G1-14-01	Born Crude Heater (KUTP)	N/A
30	H-KF01	Kaldair I-58-VS Emergency Flare	N/A
57	-	Kuparuk Unit Topping Plant (KUTP)	N/A

(b) Permit Condition Deviation:

Identify each permit condition deviation or potential deviation. Attach additional sheets as necessary.

<u>Permit Condition</u>	<u>Potential Deviation</u>
25 Except as provided for in condition 32.9, the Permittee shall submit to the Department and EPA a "summary report form" semi-annually, postmarked by the 30th day following the end of each six-month period, in the format shown in Figure 1 of 40 C.F.R. 60.7 for each pollutant monitored for EU IDs 1 through 14, 16, and 30.	The Permittee did not submit the report for NSPS Subpart J to the Department for EU IDs 16 and 30.
34.11 The Permittee shall submit to EPA and the Department semiannual reports.	The Permittee did not submit the report for NSPS Subpart GGG to the Department for EU ID 57.
87.1 Attach to the operating report required by condition 88, copies of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10 as required by conditions 24, 25, 26, 32.6, 32.7, 32.9, 34.11, 45.2, 46.3, 47.2, 63, and 64, unless copies have already been provided to the Department at the time submitted to EPA.	The Permittee did not submit the reports to the Department with the operating report, and the reports were not provided to the Department at the time submitted to EPA.
90 The Permittee must comply with each permit term and condition.	The Permittee did not comply with each permit term and condition.

(c) Corrective Actions:

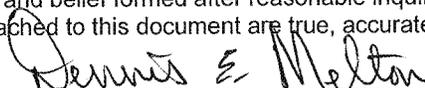
Attach a description of actions taken to correct the deviation or potential deviation and to prevent recurrence.

Reports were submitted to the Department upon discovery of the deviation.

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Dennis Melton

Printed Name:



Signature:

2/6/2019

Date:

Attachment 5

Copies of Excess Emission/Permit Deviation Reports Previously Submitted during the reporting period

NONE

Attachment 6

Copies of Method 9 Opacity Observations during the reporting period

NONE

Attachment 7

1E/1J VOC Emissions from EU ID 56 with Inputs and Outputs

Attachment 8

EU 14 and 61 Corrections

EU 14 – GE Frame 6 Fuel Use Corrections

Date	EU 14 KRU Fuel Use (MMscf)
2016-12	26.37
2017-01	231.0
2017-02	184.3
2017-03	232.5
2017-04	211.0
2017-05	204.0
2017-06	152.8
2017-07	229.6
2017-08	230.8
2017-09	236.0
2017-10	251.5
2017-11	237.0
2017-12	240.5
2018-01	243.8
2018-02	207.4
2018-03	236.8
2018-04	228.7
2018-05	224.7
2018-06	144.2
2018-07	196.7
2018-08	183.2

EU 61 – Well Service Heaters Fuel Use Corrections

Date		Total per Month (gal)	Rolling 12-month Total (gal/year)
From	Thru		
1/1/2018	1/31/2018	22,071	111,740
2/1/2018	2/28/2018	37,424	139,247
3/1/2018	3/31/2018		141,088
4/1/2018	4/30/2018		147,468
5/1/2018	5/31/2018		140,051
6/1/2018	6/30/2018		141,632
7/1/2018	7/31/2018		146,453
8/1/2018	8/31/2018		144,921
9/1/2018	9/30/2018		156,085

ConocoPhillips Alaska, Inc.
Stationary Source Total Fuel Consumption Summary
 Kuparuk Central Production Facility No. 1
TVP01 Permit Condition 10.4
 2016

Version 2016.64

Unit	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year to Date Total
Group I Gas Turbines (IDs 1-14) (MMSCF)	816.9	731.3	694.8	645.5	709.8	599.3	496.3	494.3	714.4	762.5	745.4	794.2	8,205.7
Group I Gas Turbines (IDs 1-14) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Group II Heaters (IDs 15-18) (MMSCF)	22.9	21.2	23.6	22.1	22.2	16.3	5.8	16.0	19.2	20.3	19.9	21.0	230.5
Group II Heaters (IDs 15-18) (Gallons)	0.0	0.0	0.0	0.0	0.0	6,216.4	9,038.6	0.0	0.0	0.0	0.0	0.0	15,254.9
Group III Diesel Fired Equipment (IDs 19-28) (Gallons)	18.7	251.3	92.7	102.6	0.0	0.0	0.0	0.0	0.0	3.9	0.0	73.8	542.9
Group IV Flares (IDs 29-34) (MMSCF)	45.6	49.4	45.1	48.6	48.8	53.5	52.4	71.4	68.0	35.0	33.4	58.3	626.6
Group V Incinerators (IDs 35-36) (MMSCF)	2.2	2.0	2.5	2.2	2.3	0.50	0.0	0.0	0.0	0.0	0.0	0.0	11.7
Group VI Drill Site Heaters (IDs 37-50) (MMSCF)	117.3	110.6	119.6	117.6	121.2	98.0	79.5	101.3	115.9	121.0	118.2	121.4	1,341.6
Drill Rig Engines (ID 58) (Gallons)	0.0	6,736.0	0.0	45.0	30.0	0.0	0.0	0.0	0.0	3,019.0	0.0	0.0	9,830.0
Drill Rig Hrs and Boilers (ID 59) (Gallons)	0.0	10,774.0	535.0	10,321.0	4,909.0	0.0	0.0	0.0	0.0	3,033.0	0.0	0.0	29,572.0
Drill Rig Camp Engines (ID 60) (Gallons)	0.0	0.0	0.0	206.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	206.0
Well Servicing Heaters (ID 61) (Gallons)	8,158.0	19,706.0	18,827.0	21,604.0	5,887.0	1,779.0	3,180.0	917.0	2,386.0	9,333.0	16,129.0	4,779.0	112,685.0
Well Servicing Engines (ID 62) (Gallons)	2,869.0	2,226.0	2,239.0	5,115.0	4,544.0	3,720.0	2,984.0	1,165.0	1,955.0	3,585.0	3,269.0	1,705.0	35,376.0
Well Frac Unit Engines (ID 63) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total Stationary Source Diesel (Gallons)	11,045.7	39,693.3	21,893.7	37,393.6	15,370.0	11,715.4	15,202.6	2,082.0	4,341.0	18,973.9	19,398.0	6,537.8	203,466.8
Grand Total Stationary Source Fuel Gas (MMSCF)	1,005.0	914.4	885.5	836.1	901.3	767.5	634.0	683.1	917.5	938.8	937.9	994.9	10,416.1

ConocoPhillips Alaska, Inc.
Stationary Source Total Fuel Consumption Summary
 Kuparuk Central Production Facility No. 1
TVP01 Permit Condition 10.4
 2017

Version 2017.3

Unit	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year to Date Total
Group I Gas Turbines (IDs 1-14) (MMSCF)	746.7	701.3	763.3	681.4	665.5	624.8	696.0	688.8	695.3	734.2	654.0	790.6	8,441.8
Group I Gas Turbines (IDs 1-14) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Group II Heaters (IDs 15-18) (MMSCF)	19.7	18.2	20.3	19.5	19.3	18.7	15.5	19.4	20.5	19.3	19.2	20.2	229.7
Group II Heaters (IDs 15-18) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Group III Diesel Fired Equipment (IDs 19-28) (Gallons)	1.2	73.9	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	89.1	43.9	219.1
Group IV Flares (IDs 29-34) (MMSCF)	63.0	52.2	61.2	59.0	67.3	57.2	73.6	49.5	45.3	26.2	37.3	56.1	648.0
Group V Incinerators (IDs 33-36) (MMSCF)	0.33	1.5	2.2	2.1	2.5	2.0	2.2	2.1	1.8	2.1	2.2	2.4	23.4
Group VI Drill Site Heaters (IDs 37-50) (MMSCF)	117.3	103.1	112.3	109.2	105.1	93.5	99.0	116.2	115.9	111.2	109.5	114.3	1,306.4
Drill Rig Engines (ID 58) (Gallons)	0.0	0.0	855.0	271.0	0.0	0.0	0.0	4,358.0	3,301.0	0.0	0.0	0.0	8,825.0
Drill Rig Hrs and Boilers (ID 59) (Gallons)	0.0	0.0	11,015.0	1,183.0	0.0	0.0	0.0	345.0	9,532.0	0.0	0.0	0.0	22,075.0
Drill Rig Camp Engines (ID 60) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well Servicing Heaters (ID 61) (Gallons)	18,773.0	9,917.0	10,936.0	12,194.0	13,120.0	3,550.0	299.0	3,526.0	3,405.0	17,807.0	10,492.0	4,423.0	108,442.0
Well Servicing Engines (ID 62) (Gallons)	3,589.0	1,809.0	2,101.0	2,335.0	3,449.0	1,611.0	1,380.0	2,803.0	2,813.0	1,224.0	2,367.0	1,984.0	26,605.0
Well Frac Unit Engines (ID 63) (Gallons)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total Stationary Source Diesel (Gallons)	22,363.2	11,799.9	24,907.0	15,994.0	16,569.0	5,161.0	1,679.0	10,272.0	19,051.0	19,031.0	12,888.1	6,450.9	166,166.1
Grand Total Stationary Source Fuel Gas (MMSCF)	946.9	876.4	959.3	871.2	859.7	796.2	886.2	875.9	878.8	893.0	822.1	983.6	10,649.3

Attachment 9

1E/1J VOC Emissions from EU ID 56 with Inputs and Outputs Corrections

Operator's Gas Venting Logsheet

CPF1 ORL 267CP02

DS 1E / 1J

Sep-18

Date/Time Start	Date/Time Finish	Well/Area	Fluid ID	Total Vol Crude (BBL)	Est Gas Vol Vented MCF	Est VOC Tons	Comments/Description	
09/13/2018 23:59	09/14/2018 09:58	1J-166	West Sak A, B, & D	180.0	198.6	1.60	Flowback to tanks for 1J-164 Marcit treatment which is offset of 1J-166	
09/28/2018 23:59	09/29/2018 11:31	1J-135	West Sak A, B, & D	150.0	303.8	2.70	Flowback to tanks for 1J-136 Marcit treatment which is offset of 1J-135	
N/A	N/A	1E	N/A	0.0	0.0	0.00	No gas venting from 1E West Sak wells during this month	
Monthly Total VOC's							4.300	

Prior 11 months rolling Cumulative Volume = 6.300

Rolling 12 month cumulative Total = 10.600

Production Engineer:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Rolling 12 month VOC Limit: 34 Tons

PREVIOUS VOC'S FROM INITIAL OBM FLOWBACKS HAVE BEEN REMOVED PER ADEC

D/SO Responsibility: Notify CPF1 Production Engineer of event description, duration and liquid volumes within 24 hours
Forward to CPF1 Production Engineer at the end of each month for final MCF and VOC calculation